

Day : Thursday
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PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = UDESHI

First Name = TUSHAR

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10698178	Not Issued	71	10/31/2003	System and method for processing a hierarchical data tree	UDESHI, TUSHAR
10749256	Not Issued	61	12/31/2003	Isosurface extraction into splat hierarchy	UDESHI, TUSHAR
60525425	Not Issued	159	11/26/2003	Generation of tetrahedral mesh from voxel data	UDESHI, TUSHAR
10080984	6816170	150	02/22/2002	SYSTEM AND METHOD FOR ROBUST AND EFFICIENT RESIZING OF SIMPLE POLYGONS	UDESHI, TUSHAR J.

Inventor Search Completed: No Records to Display.

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PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = PARKER

First Name = ERIC

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>07181749</u>	<u>4802807</u>	150	04/14/1988	THREADED FASTENER	PARKER, ERIC
<u>08565003</u>	<u>5629826</u>	150	11/30/1995	RETRACTABLE CORD SURGE PROTECTOR	PARKER, ERIC
<u>09153276</u>	<u>6189662</u>	150	09/14/1998	ADJUSTABLE DAMPER	PARKER, ERIC
<u>09160168</u>	<u>5992307</u>	150	09/25/1998	PORTABLE OUTDOOR STEAMER SYSTEM	PARKER, ERIC
<u>09328134</u>	<u>6269919</u>	150	06/08/1999	PLASTIC STRAND DAMPER	PARKER, ERIC
<u>09496530</u>	Not Issued	160	02/02/2000	Financial modeling in a modular system and method for processing transactions	PARKER, ERIC
<u>09496903</u>	Not Issued	160	02/02/2000	Modular system and method for processing transactions	PARKER, ERIC
<u>09595306</u>	<u>6540251</u>	150	06/16/2000	SIDE AIRBAG RETENTION SYSTEM AND FASTENER	PARKER, ERIC
<u>10001272</u>	<u>6539990</u>	150	11/20/2001	CAPLESS REFUELING ASSEMBLY	PARKER, ERIC
<u>10698178</u>	Not Issued	71	10/31/2003	System and method for processing a hierarchical data tree	PARKER, ERIC
<u>10749256</u>	Not Issued	61	12/31/2003	Isosurface extraction into splat hierarchy	PARKER, ERIC
<u>60193524</u>	Not Issued	159	03/31/2000	Side air bag attachment system	PARKER, ERIC
<u>60629603</u>	Not Issued	159	11/22/2004	Shower head with time and temperature display	PARKER, ERIC A.
<u>60867677</u>	Not Issued	20	11/29/2006	Method of Preparing Benzoxazines	PARKER, ERIC A.
<u>07188035</u>	<u>4881912</u>	150	04/29/1988	HIGH VOLTAGE COAXIAL CONNECTOR	PARKER, ERIC B.

<u>09569330</u>	<u>6510359</u>	150	05/11/2000	METHOD AND SYSTEM FOR SELF-REPLICATING MANUFACTURING STATIONS	PARKER, ERIC G
<u>09569329</u>	<u>6398280</u>	150	05/11/2000	GRIpper AND COMPLEMENTARY HANDLE FOR USE WITH MICROCOMPONENTS	PARKER, ERIC G.
<u>09613974</u>	<u>6224129</u>	150	07/11/2000	Car seat tether anchor and system	PARKER, ERIC G.
<u>09616500</u>	<u>6677225</u>	150	07/14/2000	SYSTEM AND METHOD FOR CONSTRAINING TOTALLY RELEASED MICROCOMPONENTS	PARKER, ERIC G.
<u>09689094</u>	<u>6698963</u>	150	10/12/2000	BALL AND SOCKET JOINT AND METHOD THEREFOR	PARKER, ERIC G.
<u>09791514</u>	<u>6431195</u>	150	02/23/2001	BUOYANT VENT VALVE	PARKER, ERIC G.
<u>09884205</u>	Not Issued	93	06/19/2001	SYSTEM AND METHOD FOR POST-FABRICATION REDUCTION OF MINIMUM FEATURE SIZE SPACING OF MICROCOMPONENTS	PARKER, ERIC G.
<u>10066220</u>	Not Issued	41	11/07/2001	Modular linkage system	PARKER, ERIC G.
<u>10306464</u>	Not Issued	41	11/27/2002	Efficient data structure	PARKER, ERIC G.
<u>10647877</u>	<u>6939097</u>	150	08/25/2003	GROUND WASHER	PARKER, ERIC G.
<u>10976709</u>	Not Issued	30	10/29/2004	Fuel shut-off valve assembly with associated components and methods of making and assembling the same	PARKER, ERIC G.
<u>11490923</u>	Not Issued	25	07/21/2006	Method and apparatus for quick recovery of dropped cellular phone calls	PARKER, ERIC G.
<u>11595586</u>	Not Issued	20	11/09/2006	Pressure relief assembly	PARKER, ERIC G.
<u>29230413</u>	<u>D537398</u>	150	05/20/2005	FUEL DOOR	PARKER, ERIC G.
<u>60428045</u>	Not Issued	159	11/21/2002	Ground washer	PARKER, ERIC G.
<u>60528037</u>	Not Issued	159	12/09/2003	Fuel shutoff valve	PARKER, ERIC G.
<u>60557182</u>	Not	159	03/29/2004	Seal for fuel shutoff valve	PARKER, ERIC G.

	Issued					
<u>60582380</u>	Not Issued	159	06/23/2004	Fuel shutoff valve and associated components and method of making and assembling the same	PARKER, ERIC G.	
<u>60652880</u>	Not Issued	159	02/15/2005	Attachment system for fuel pipe assemblies and method of assembly therefor	PARKER, ERIC G.	
<u>60694299</u>	Not Issued	159	06/27/2005	Variety of cupholders	PARKER, ERIC G.	
<u>60763597</u>	Not Issued	159	01/31/2006	Pressure relief device	PARKER, ERIC G.	
<u>60782365</u>	Not Issued	159	03/15/2006	Locking system for capless refueling system	PARKER, ERIC G.	
<u>60816846</u>	Not Issued	20	06/27/2006	Liquid level sensor	PARKER, ERIC G.	
<u>60843182</u>	Not Issued	20	09/08/2006	Maxi-grip airbag sleeve	PARKER, ERIC G.	
<u>60855925</u>	Not Issued	20	11/01/2006	Maxi-grip airbag sleeve	PARKER, ERIC G.	
<u>60903752</u>	Not Issued	20	02/27/2007	Control device and system	PARKER, ERIC G.	
<u>06712597</u>	<u>4600662</u>	150	03/18/1985	A FERROUS ARTICLE LAYERED WITH ION VAPOR DEPOSITED NON-OXIDIZED ALUMINUM	PARKER, ERIC G.	
<u>06850517</u>	<u>4715316</u>	150	04/11/1986	APPARATUS FOR PLATING AND COATING	PARKER, ERIC G.	
<u>07108957</u>	<u>4788078</u>	150	10/16/1987	METHOD FOR PLATING AND COATING ARTICLES	PARKER, ERIC G.	
<u>07318298</u>	<u>4944523</u>	150	03/03/1989	END LINK FOR STABILIZER BAR	PARKER, ERIC G.	
<u>07554741</u>	<u>5076242</u>	150	07/18/1990	INTEGRAL FUEL LINE	PARKER, ERIC G.	
<u>07688468</u>	Not Issued	161	04/22/1991	FASTENER COATING AND PROCESS	PARKER, ERIC G.	
<u>07881186</u>	<u>5239964</u>	150	05/11/1992	CONCENTRIC FUEL LINE SYSTEM	PARKER, ERIC G.	
<u>08011327</u>	<u>5494754</u>	150	01/29/1993	FASTENER COATING AND PROCESS	PARKER, ERIC G.	
<u>08098224</u>	<u>5449193</u>	150	07/27/1993	END LINK FOR A VEHICLE STABILIZER BAR	PARKER, ERIC G.	

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PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = PARKER

First Name = ERIC

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>08134409</u>	<u>5390904</u>	250	10/08/1993	ATTENUATED HINGE SPRING ASSEMBLY	PARKER, ERIC G.
<u>08136336</u>	<u>5542705</u>	150	10/14/1993	DUAL COMPENSATING STABILIZER	PARKER, ERIC G.
<u>08136337</u>	<u>5382034</u>	150	10/14/1993	DUAL COMPENSATING STABILIZER	PARKER, ERIC G.
<u>08192447</u>	Not Issued	161	02/07/1994	PIVOTAL BALL-END LINK	PARKER, ERIC G.
<u>08311479</u>	<u>5669695</u>	150	09/23/1994	HEADLAMP ADJUSTMENT MECHANISM	PARKER, ERIC G.
<u>08369897</u>	Not Issued	161	01/09/1995	METHOD OF MAKING A COMPONENT WHICH IS SUBSTANTIALLY IMPERVIOUS TO HYDROCARBONS AND/OR ELECTRICALLY CONDUCTIVE	PARKER, ERIC G.
<u>08550380</u>	<u>5690194</u>	150	10/30/1995	ONE-WAY PIVOTING GEAR DAMPER	PARKER, ERIC G.
<u>08619009</u>	<u>5807010</u>	150	03/21/1996	PIVOTAL BALL-END LINK	PARKER, ERIC G.
<u>08708816</u>	<u>5839548</u>	150	09/09/1996	MOTION CONTROL DEVICE FOR ROTARY DAMPERS	PARKER, ERIC G.
<u>08714248</u>	<u>6007154</u>	150	09/16/1996	FOUR-WAY ARTICULATING HEADREST SYSTEM FOR AUTOMOTIVE SEATS	PARKER, ERIC G.
<u>08798875</u>	<u>5836598</u>	150	02/11/1997	APPARATUS FOR VEHICLE SUSPENSION STABILIZATION SYSTEM AND METHOD THEREOF	PARKER, ERIC G.
<u>08890058</u>	Not Issued	168	07/09/1997	PIVOTAL BALL-END LINK	PARKER, ERIC G.

<u>08991215</u>	6026554	150	12/16/1997	AUTOMOTIVE FUEL FILLER PIPE HOUSING WITH SNAP-OVER TRIM RING	PARKER, ERIC G.
<u>09062519</u>	5931206	150	04/17/1998	AUTOMOTIVE FUEL FILLER PIPE VALVE ASSEMBLY	PARKER, ERIC G.
<u>09324519</u>	6121755	150	06/03/1999	OPTICAL-ELECTRONIC BATTERY INDICATOR	PARKER, ERIC G.
<u>09411953</u>	6206339	150	10/04/1999	ROTARY FUEL FILLER VALVE ACTUATOR	PARKER, ERIC G.
<u>08944279</u>	6259904	150	10/06/1997	FAST SQUELCH CIRCUIT AND METHOD	PARKER, ERIC GEORGE
<u>06689057</u>	4632031	150	12/11/1984	PROGRAMMABLE ELECTRONIC DELAY FUSE	PARKER, ERIC J.
<u>10154106</u>	Not Issued	71	05/22/2002	Methods for treating alzheimer's disease and/or regulating levels of amyloid beta peptides in a subject	PARKER, ERIC MCFEE
<u>10701244</u>	Not Issued	30	11/04/2003	Methods and therapeutic combinations for the treatment of demyelination	PARKER, ERIC MCFEE
<u>60293651</u>	Not Issued	159	05/25/2001	Methods for treating alzheimer's disease and/or regulating levels of amyloid beta peptides in a mammal	PARKER, ERIC MCFEE
<u>60323911</u>	Not Issued	159	09/21/2001	Methods for treating Alzheimer's disease and/or regulating levels of amyloid beta peptides in a mammal	PARKER, ERIC MCFEE
<u>60424165</u>	Not Issued	159	11/06/2002	Methods and therapeutic combinations for the treatment of demyelination	PARKER, ERIC MCFEE
<u>09003199</u>	5985616	150	01/07/1998	CHIMERIC MAMMALIAN NPY Y5 RECEPTORS	PARKER, ERIC MCFEE
<u>11437343</u>	Not Issued	25	05/19/2006	System for testing smart cards and method for same	PARKER, ERIC N.
<u>60683376</u>	Not Issued	159	05/19/2005	Automated system for flexible and asynchronous testing of smart card devices	PARKER, ERIC N.
<u>09321906</u>	6618712	150	05/28/1999	PARTICLE ANALYSIS USING LASER ABLATION MASS SPECTROSCOPY	PARKER, ERIC P.
<u>07871095</u>	Not Issued	161	04/20/1992	RAIL PROTECTOR FOR SURFBOARDS OR FOR ANY FLOATING WATER SPORT BOARDS	PARKER, ERIC S.

Inventor Search Completed: No Records to Display.

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1 Advances in software and hardware synthesis techniques for DSP applications:
 Efficient mapping of hierarchical trees on coarse-grain reconfigurable architectures
 F. Rivera, M. Sanchez-Elez, M. Fernandez, R. Hermida, N. Bagherzadeh
 September 2004 **Proceedings of the 2nd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '04**

Publisher: ACM PressFull text available:  pdf(316.12 KB) Additional Information: full citation, abstract, references, index terms

Reconfigurable architectures have become increasingly important in recent years. In this paper we present an approach to the problem of executing 3D graphics interactive applications onto these architectures. The hierarchical trees are usually implemented to reduce the data processed, thereby diminishing the execution time. We have developed a mapping scheme that parallelizes the tree execution onto a SIMD reconfigurable architecture. This mapping scheme considerably reduces the time penalty cau ...

Keywords: SIMD, computer graphics, hierarchical trees, multimedia, reconfigurable architectures

2 The Quadtree and Related Hierarchical Data Structures

 Hanan Samet
 June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Publisher: ACM PressFull text available:  pdf(4.87 MB) Additional Information: full citation, references, citations, index terms

3 Research sessions: selectivity: Hierarchical subspace sampling: a unified framework for high dimensional data reduction, selectivity estimation and nearest neighbor search

Charu C. Aggarwal

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02****Publisher:** ACM PressFull text available:  pdf(1.40 MB) Additional Information: full citation, abstract, references, citations, index terms

With the increased abilities for automated data collection made possible by modern

technology, the typical sizes of data collections have continued to grow in recent years. In such cases, it may be desirable to store the data in a reduced format in order to improve the storage, transfer time, and processing requirements on the data. One of the challenges of designing effective data compression techniques is to be able to preserve the ability to use the reduced format directly for a wide range of ...

4 An automated approach for retrieving hierarchical data from HTML tables

 Seung-Jin Lim, Yiu-Kai Ng

November 1999 **Proceedings of the eighth international conference on Information and knowledge management CIKM '99**

Publisher: ACM Press

Full text available:  pdf(1.74 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Among the HTML elements, HTML tables [RHJ98] encapsulate hierarchically structured data (hierarchical data in short) in a tabular structure. HTML tables do not come with a rigid schema and almost any forms of two-dimensional tables are acceptable according to the HTML grammar. This relaxation complicates the process of retrieving hierarchical data from HTML tables. In this paper, we propose an automated approach for retrieving hierarchical data from HTML tables. The proposed approach constr ...

5 An algebraic model of information structure and information processing

 Isamu Kobayashi

August 1972 **Proceedings of the ACM annual conference - Volume 2 ACM '72**

Publisher: ACM Press

Full text available:  pdf(1.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper intends to clarify logical and physical information structures and essential operations in the data processing on them. Basic terminologies are due to Information Algebra originally proposed by CODASYL Language Structure Group in 1961, however, several new concepts have been introduced to ease the discussion from the software implementation point of view. The paper is included in internal research memorandom titled "Data Base Management Systems - a Theory and a Practice,&rd ...

Keywords: Data base, Data base management, Indexing, Information algebra, Information storage and retrieval, Information structure

6 XML stream processing using tree-edit distance embeddings

 Minos Garofalakis, Amit Kumar

March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1

Publisher: ACM Press

Full text available:  pdf(726.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution is a novel algorithm for obliviously embedding tree-edit distance metrics into an L_1 vector space while guaranteeing a (worst-case) upper bound of $O(\log^2 n \log n)$ on the distance distortion between ...

Keywords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

7 [Retrieval operations and data representations in a context-addressed disc system](#)

 Stanley Y. W. Su, George P. Copeland, G. Jack Lipovski
November 1973 **ACM SIGIR Forum , ACM SIGPLAN Notices , Proceedings of the 1973 meeting on Programming languages and information retrieval SIGPLAN '73**, Volume 9 , 10 Issue 3 , 1

Publisher: ACM Press

Full text available:  pdf(1.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper attempts to demonstrate that simple expansion of the processing capabilities of fixed disc read and write heads can avoid the multilevel mappings from high-level retrieval language to machine language and from user oriented data representation (information structure) to machine oriented data representation (storage structure) which are found necessary in conventional von Neumann computers. The processing capabilities built in the disc read and write heads for each disc track allow inf ...

8 [Research sessions: Research 8: XML query processing: Twig²Stack: bottom-up processing of generalized-tree-pattern queries over XML documents](#)

Songting Chen, Hua-Gang Li, Junichi Tatenuma, Wang-Pin Hsiung, Divyakant Agrawal, K. Selçuk Candan

September 2006 **Proceedings of the 32nd international conference on Very large data bases - Volume 32 VLDB'2006**

Publisher: VLDB Endowment

Full text available:  pdf(663.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Tree pattern matching is one of the most fundamental tasks for XML query processing. Holistic twig query processing techniques [4, 16] have been developed to minimize the intermediate results, namely, those root-to-leaf path matches that are not in the final twig results. However, useless path matches cannot be completely avoided, especially when there is a parent-child relationship in the twig query. Furthermore, existing approaches do not consider the fact that in practice, in order to process ...

9 [XML processing: Ctree: a compact tree for indexing XML data](#)

 Qinghua Zou, Shaorong Liu, Wesley W. Chu
November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management WIDM '04**

Publisher: ACM Press

Full text available:  pdf(272.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we propose a novel compact tree (Ctree) for XML indexing, which provides not only concise path summaries at the group level but also detailed child-parent links at the element level. Group level mapping allows efficient pruning of a large search space while element level mapping provides fast access to the parent of an element. Due to the tree nature of XML data and queries, such fast child-to-parent access is essential for efficient XML query processing. Using group-based elem ...

Keywords: Ctree, XML index, XQuery evaluation, path summary, value index

10 [The quad-CIF tree: A data structure for hierarchical on-line algorithms](#)

Gershon Kedem
January 1982 **Proceedings of the 19th conference on Design automation DAC '82**

Publisher: IEEE Press

Full text available:  pdf(441.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe the quad-CIF tree data structure and its application to

hierarchical on-line computer-aided design algorithms. The main idea is to overlay a tree of coordinates on top of the hierarchical representation of an integrated circuit. The coordinate tree enables one to find quickly the set of all objects that intersect a given window. We outline how one can use the data structure in order to implement hierarchical, on-line design rule checking and node extraction. We als ...

11 Strip trees: a hierarchical representation for curves

 Dana H. Ballard

May 1981 **Communications of the ACM**, Volume 24 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.02 MB)

Additional Information: full citation, abstract, references, citings, index terms

The use of curves to represent two-dimensional structures is an important part of many scientific investigations. For example, geographers use curves extensively to represent map features such as contour lines, roads, and rivers. Circuit layout designers use curves to specify the wiring between circuits. Because of the very large amount of data involved and the need to perform operations on this data efficiently, the representation of such curves is a crucial issue. A hierarchical represent ...

Keywords: boundary line representation, cartography, computer graphics, computer-searchable structures, contour representation, geographic information processing, graphic data retrieval, intersection of curves, line-drawing processing, points in polygons, polygons, regional boundary representation, spatial information

12 An approach for integration of data processing in a distributed enviornment

 M. M. Owrang, L. L. Miller

February 1989 **Proceedings of the 17th conference on ACM Annual Computer Science Conference CSC '89**

Publisher: ACM Press

Full text available:  pdf(582.89 KB) Additional Information: full citation, abstract, references, index terms

A translation process designed to translate queries between data models in a distributed environment is examined. Such a translation mechanism will enable the user to have access to the database resource in a distributed database for which different data base management systems coexist. The translation process is described and examples illustrating the process are given. The discussion has been limited to operating in the environment where the source and target database have the same semant ...

13 Research articles and surveys: Analytical processing of XML documents:

 opportunities and challenges

Rajesh R. Bordawekar, Christian A. Lang

June 2005 **ACM SIGMOD Record**, Volume 34 Issue 2

Publisher: ACM Press

Full text available:  pdf(191.42 KB) Additional Information: full citation, abstract, references, index terms

Online Analytical Processing (OLAP) has been a valuable tool for analyzing trends in business information. While the multi-dimensional cube model used by OLAP is ideal for analyzing structured business data, it is not suitable for representing and analyzing complex semi-structured data, such as, XML documents. Need for analyzing XML documents is gaining urgency as XML has become the language of choice for data representation across a wide range of application domains. This paper describes a prop ...

14

A unifying data structure for hierarchical methods

 Faith E. Sevilgen, Srinivas Aluru
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**
Publisher: ACM Press
Full text available:  pdf(88.91 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

15 A hierarchical data structure for multidimensional digital images 

 Mann-May Yau, Sargur N. Srihari
July 1983 **Communications of the ACM**, Volume 26 Issue 7

Publisher: ACM Press
Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A tree data structure for representing multidimensional digital binary images is described. The method is based on recursive subdivision of the d-dimensional space into 2d hyperoctants. An algorithm for constructing the tree of a d-dimensional binary image from the trees of its (d - 1)-dimensional cross sections is given. The computational advantages of the data structure and the algorithm are demonstrated both theoretically and in application to a three-dimens ...

Keywords: computed tomography, hyperoctree, multidimensional arrays, octree, quadtree, serial section image processing

16 The architecture of CASSM: A cellular system for non-numeric processing 

 George P. Copeland, G. J. Lipovski, Stanley Y.W. Su
December 1973 **ACM SIGARCH Computer Architecture News , Proceedings of the 1st annual symposium on Computer architecture ISCA '73**, Volume 2 Issue 4
Publisher: ACM Press

Full text available:  pdf(857.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents the architecture of a context-addressed cellular system for non-numeric information processing, using an inexpensive, large-capacity circulating memory device. The system allows data to be represented in a structure very close to the form as the user perceives it (information structure) and allows the search operations of high level queries to be implemented directly. The information structures currently used in existing information systems are described. Then the architit ...

17 Hierarchical Data-Base Management: A Survey 

 D. C. Tsichritzis, F. H. Lochovsky
March 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Publisher: ACM Press
Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 A study of order transformations of hierarchical structures in IMS data bases 

 J. W. Mehl, C. P. Wang
May 1974 **Proceedings of the 1974 ACM SIGFIDET (now SIGMOD) workshop on Data description, access and control FIDET '74**
Publisher: ACM Press

Full text available:  pdf(667.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Hierarchical structures are widely used in information processing. An application program written to traverse a hierarchical structure will not work properly, if at all, when the order of the structure (in the sense of tree order) is altered. This paper presents a method in the context of IMS systems to intercept and interpret data base manipulation commands issued by the application program to eliminate the necessity of reprogramming when a hierarchical structure is subject to an order tra ...

19 Dynamic maintenance of multidimensional range data partitioning for parallel data
processing

Junping Sun, William I. Grosky

November 1998 **Proceedings of the 1st ACM international workshop on Data warehousing and OLAP DOLAP '98**

Publisher: ACM Press

Full text available:  pdf(1.09 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



20 Research track: Classifying large data sets using SVMs with hierarchical clusters

Hwanjo Yu, Jiong Yang, Jiawei Han

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03**

Publisher: ACM Press

Full text available:  pdf(381.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Support vector machines (SVMs) have been promising methods for classification and regression analysis because of their solid mathematical foundations which convey several salient properties that other methods hardly provide. However, despite the prominent properties of SVMs, they are not as favored for large-scale data mining as for pattern recognition or machine learning because the training complexity of SVMs is highly dependent on the size of a data set. Many real-world data mining applicati ...

Keywords: hierarchical cluster, support vector machines

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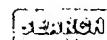
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**1** [Compression of particle data from hierarchical approximate methods](#)

Dow-Yung Yang, Ananth Grama, Vivek Sarin, Naren Ramakrishnan

 September 2001 **ACM Transactions on Mathematical Software (TOMS)**, Volume 27 Issue 3
Publisher: ACM PressFull text available: [pdf\(614.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article presents an analytical and computational framework for the compression of particle data resulting from hierarchical approximate treecodes such as the *Barnes--Hut* and *Fast Multipole Methods*. Due to approximations introduced by hierarchical methods, various parameters (such as position, velocity, acceleration, potential) associated with a particle can be bounded by distortion radii. Using this distortion radii, we develop storage schemes that guarantee error bounds while ...

Keywords: Astrophysics, Barnes--Hut, Fast Multipole Method, data compression and analysis, materials simulation, molecular dynamics, particle dynamics

**2** [Implications of hierarchical N-body methods for multiprocessor architectures](#)

Jaswinder Pal Singh, John L. Hennessy, Anoop Gupta

 May 1995 **ACM Transactions on Computer Systems (TOCS)**, Volume 13 Issue 2
Publisher: ACM PressFull text available: [pdf\(4.66 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

To design effective large-scale multiprocessors, designers need to understand the characteristics of the applications that will use the machines. Application characteristics of particular interest include the amount of communication relative to computation, the structure of the communication, and the local cache and memory requirements, as well as how these characteristics scale with larger problems and machines. One important class of applications is based on hierarchical N-body methods, w ...

Keywords: N-body methods, communication abstractions, locality, message passing, parallel applications, parallel computer architecture, scaling, shared address space, shared memory

 **The Quadtree and Related Hierarchical Data Structures**

Hanan Samet

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2**Publisher:** ACM PressFull text available:  pdf(4.87 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 **Research sessions: selectivity: Hierarchical subspace sampling: a unified framework for high dimensional data reduction, selectivity estimation and nearest neighbor search**

Charu C. Aggarwal

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02****Publisher:** ACM PressFull text available:  pdf(1.40 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the increased abilities for automated data collection made possible by modern technology, the typical sizes of data collections have continued to grow in recent years. In such cases, it may be desirable to store the data in a reduced format in order to improve the storage, transfer time, and processing requirements on the data. One of the challenges of designing effective data compression techniques is to be able to preserve the ability to use the reduced format directly for a wide range of ...

5 **EXPRESS: a data EXtraction, Processing, and Restructuring System**

 N. C. Shu, B. C. Housel, R. W. Taylor, S. P. Ghosh, V. Y. LumJune 1977 **ACM Transactions on Database Systems (TODS)**, Volume 2 Issue 2**Publisher:** ACM PressFull text available:  pdf(2.62 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

EXPRESS is an experimental prototype data translation system which can access a wide variety of data and restructure it for new uses. The system is driven by two very high level nonprocedural languages: DEFINE for data description and CONVERT for data restructuring. Program generation and cooperating process techniques are used to achieve efficient operation. This paper describes the design and implementation of EXPRESS. DEFINE and CONVERT are summarized and the implementation ar ...

Keywords: data conversion, data description languages, data manipulation languages, data restructuring, data translation, file conversion, program generation, very high level languages

6 **Hierarchical Data-Base Management: A Survey**

 D. C. Tsichritzis, F. H. LochovskyMarch 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1**Publisher:** ACM PressFull text available:  pdf(1.29 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 **Bounded-error compression of particle data from hierarchical approximate methods**

 Dow-Yung Yang, Ananth Grama, Vivek SarinJanuary 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**

Publisher: ACM Press

Full text available: [pdf\(691.10 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

8 Data clustering: a review

 A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: [pdf\(636.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

9 Bounded-error compression of particle data from hierarchical approximate methods

 Dow-Yung Yang, Ananth Grama, Vivek Sarin
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**

Publisher: ACM Press

Full text available: [pdf\(691.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 External memory algorithms and data structures: dealing with massive data

 Jeffrey Scott Vitter
June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Publisher: ACM Press

Full text available: [pdf\(828.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

11 Parallel matrix-vector product using approximate hierarchical methods

 Ananth Grama, Vipin Kumar, Ahmed Sameh
December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '95**

Publisher: ACM Press

Full text available: [pdf\(659.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

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Matrix-vector products (mat-vecs) form the core of iterative methods used for solving dense linear systems. Often, these systems arise in the solution of integral equations used in electromagnetics, heat transfer, and wave propagation. In this paper, we present a parallel approximate method for computing mat-vecs used in the solution of integral equations. We use this method to compute dense mat-vecs of hundreds of thousands of elements. The combined speedups obtained from the use of approximate ...

12 The design and implementation of hierarchical software systems with reusable components

Don Batory, Sean O'Malley
October 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 1 Issue 4

Publisher: ACM Press

Full text available: [pdf\(3.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a domain-independent model of hierarchical software system design and construction that is based on interchangeable software components and large-scale reuse. The model unifies the conceptualizations of two independent projects, Genesis and Avoca, that are successful examples of software component/building-block technologies and domain modeling. Building-block technologies exploit large-scale reuse, rely on open architecture software, and elevate the granularity of programming to ...

Keywords: domain modeling, open system architectures, reuse, software building-blocks, software design

13 Data Warehouse: Dynamic and hierarchical spatial access method using integer searching

Kyoosang Cho, Yijie Han, Yugyung Lee, E. K. Park
October 2001 **Proceedings of the tenth international conference on Information and knowledge management CIKM '01**

Publisher: ACM Press

Full text available: [pdf\(1.72 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Dynamic and complex computation in the area of Geographic Information System (GIS) or Mobile Computing System involves huge amount of spatial objects such as points, boxes, polygons, etc and requires a scalable data structure and an efficient management tool for this information. In this paper, for a dynamic management of spatial objects, we construct a hierarchical dynamic data structure, called an IST/OPG hierarchy, which may overcome some limitations of existing Spatial Access Methods (SAMs). ...

Keywords: dynamic and hierarchical structure, grid file, integer searching algorithm, spatial access method

14 H-BLOB: a hierarchical visual clustering method using implicit surfaces

T. C. Sprenger, R. Brunella, M. H. Gross
October 2000 **Proceedings of the conference on Visualization '00 VIS '00**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(2.17 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

Keywords: categorization, cluster visualization, clustering, information visualization, multidimensional information visualization, non-linear dimensionality reduction,

partitioning, physics-based graph layout

15 Retrieval operations and data representations in a context-addressed disc system

Stanley Y. W. Su, George P. Copeland, G. Jack Lipovski

November 1973 **ACM SIGIR Forum , ACM SIGPLAN Notices , Proceedings of the 1973 meeting on Programming languages and information retrieval SIGPLAN '73**, Volume 9 , 10 Issue 3 , 1

Publisher: ACM Press

Full text available:  pdf(1.15 MB) Additional Information: full citation, abstract, references, citations

This paper attempts to demonstrate that simple expansion of the processing capabilities of fixed disc read and write heads can avoid the multilevel mappings from high-level retrieval language to machine language and from user oriented data representation (information structure) to machine oriented data representation (storage structure) which are found necessary in conventional von Neumann computers. The processing capabilities built in the disc read and write heads for each disc track allow inf ...

16 Path delay analysis for hierarchical building block layout system

Eiji Tamura, Kimihiro Ogawa, Toshio Nakano

June 1983 **Proceedings of the 20th conference on Design automation DAC '83**

Publisher: IEEE Press

Full text available:  pdf(705.84 KB) Additional Information: full citation, abstract, references, citations, index terms

This paper describes a path delay analysis system which employs an accurate signal delay calculation method for MOS LSIs, taking poly resistance into account. The system takes mask patterns generated by a hierarchical building block layout system as inputs, and verifies timing margins of a large scale random logic LSI in a module-wise bottom up fashion. Path delay analysis using a critical path trace algorithm and an enumerative path trace algorithm in combination is effective in locating c ...

17 Energy-performance trade-offs for spatial access methods on memory-resident data

Ning An, Sudhanva Gurumurthi, Anand Sivasubramaniam, Narayanan Vijaykrishnan, Mahmut Kandemir, Mary Jane Irwin

November 2002 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 11 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(641.55 KB) Additional Information: full citation, abstract, citations, index terms

The proliferation of mobile and pervasive computing devices has brought energy constraints into the limelight. Energy-conscious design is important at all levels of system architecture, and the software has a key role to play in conserving battery energy on these devices. With the increasing popularity of spatial database applications, and their anticipated deployment on mobile devices (such as road atlases and GPS-based applications), it is critical to examine the energy implications of spatial ...

Keywords: Energy optimization, Multidimensional indexing, Resource-constrained computing, Spatial data

18 Multidimensional access methods

Volker Gaede, Oliver Günther

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.05 MB) Additional Information: full citation, abstract, references, citations, index

terms

Search operations in databases require special support at the physical level. This is true for conventional databases as well as spatial databases, where typical search operations include the point query (find all objects that contain a given search point) and the region query (find all objects that overlap a given search region). More than ten years of spatial database research have resulted in a great variety of multidimensional access methods to support ...

Keywords: data structures, multidimensional access methods

19 Articles on microarray data mining: Towards interactive exploration of gene expression patterns



Daxin Jiang, Jian Pei, Aidong Zhang
December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: [pdf\(527.68 KB\)](#) Additional Information: full citation, abstract, references

Analyzing coherent gene expression patterns is an important task in bioinformatics research and biomedical applications. Recently, various clustering methods have been adapted or proposed to identify clusters of co-expressed genes and recognize coherent expression patterns as the centroids of the clusters. However, the interpretation of co-expressed genes and coherent patterns mainly depends on the domain knowledge, which presents several challenges for coherent pattern mining and cannot be solv ...

20 A survey of structured and object-oriented software specification methods and techniques



Roel Wieringa
December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(605.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article surveys techniques used in structured and object-oriented software specification methods. The techniques are classified as techniques for the specification of external interaction and internal decomposition. The external specification techniques are further subdivided into techniques for the specification of functions, behavior, and communication. After surveying the techniques, we summarize the way they are used in structured and object-oriented methods and indicate ways in w ...

Keywords: languages

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